

MINING APPLICATION
NO. _____

Date _____

EXHIBIT A

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS
(See Rule M of General Rules and Regulations)

1. Name of Applicant or Company Atlas Minerals, Division of Atlas Corporation
Corporation (X) Partnership () Individual ()
2. Address Big Indian Mines, Moab, Utah 84532
Permanent Temporary
3. Name and title of person representing company T. L. Wilson, Manager of Mines
4. Address Big Indian Mines Office Phone 686-2217
5. Location of Operation San Juan Sec. 22, 27 T. 31S R. 24E
County
6. Name of Mine Windfall Mine
7. Mineral to be mined: Mining method:

() Coal	() Flagstone	<u>Underground modified room and pillar</u>
() Copper	() Gravel	
() Manganese	() Shale	
() Iron Ore	(X) Uranium	
() Phosphate	() Gilsomite	
() Potash	() Bituminous Sandstone	
() Fluorspar	() Tungsten	
() Other (specify) _____	_____	
8. Have you or any person, partnership or corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein?
(X) Yes () No
If yes, list all approval numbers now under surety:
#ACT - 037-003

9. Owner/Owners of record of the surface area within the land to be affected:

<u>Public Domain</u>	Address _____
_____	Address _____
_____	Address _____
_____	Address _____

Atlas Minerals	Address	Moah, Utah
	Address	
	Address	
	Address	

Atlas Minerals	Address	Moab, Utah
	Address	
	Address	

(X) Yes () No

A)	Mining Operation Area -	<u>3.0</u>	acres
	(include operations, storage, & disposal area)		
B)	Access Road or Haulageway -	<u>0</u>	acres
C)	Drainage System -	<u>0</u>	acres

TOTAL ACRES: 3.0

Name: _____ Title: _____ Address: _____

a.	A. E. Dearth	President	Atlas Minerals, Division of Atlas Corporation
b.			2506 Prudential Plaza
c.			1050 17th Street
d.			Denver, Colorado 80202

If yes, explain:

STATE OF Utah
COUNTY OF Grand

I, THOMAS L. WILSON, having been duly sworn
depote and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
application has been executed as required by law.

Signed: Thomas L. Wilson

Taken, subscribed and sworn to before me the undersigned authority
in my said county, this 32nd day of February, 1977.

Notary Public: Sharon K. Hawkins
Charl, Utah

My Commiission Expires: 10-30-80

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides as
follows:

"Information relating to the location, size, or nature
of the deposit and marked confidential by the operator,
shall be protected as confidential information by the
Board and the Division and not be a matter of public
record in the absence of a written release from the
operator, or until the mining operation has been
terminated as provided in subsection (2) of section
40-8-21."

Is confidential information contained herein?

YES _____ (Initial)

NO _____ (Initial)

Sections desired to be maintained as confidential information -

Date _____

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MINING AND RECLAMATION PLAN

(Other forms may be used in lieu of MR-2, provided
they contain the same information)

1. Name of Applicant or Company Atlas Minerals, Division of Atlas Corporation
2. Proposed type of operation Underground Uranium Mine
3. (a) Prior Land Use(s) Mining, Grazing
(b) Current Land Use(s) Mining, Grazing
(c) Possible or Prospective Future Land Use(s) Grazing
4. What vegetation exists on the land proposed to be affected Juniper,
Pinyon, Ricegrass, Rabbit Brush and Misc.
(a) Types and Estimated Percent cover or density: 10% cover on
undisturbed areas; 5-10% cover on existing waste dumps
5. What is the pH range of soil before mining? 8.2 - 8.4 pH* waste rock
Name of Person or Agency and method of determining pH Brad Clark
(Lamotte - Colorimetric)
6. Site elevation above sea level 6500 +
7. In case of coal, oil shale, and bituminous sandstone:
Principal seam(s) and thickness(es) _____
8. Estimated duration of mining operations Projected 8-10 years
9. Has overburden, waste or rejected materials been classified as acid or
alkali producing? () Yes (X) No
Does the above material being moved have any other characteristics
affecting revegetation? Nutrient Deficient
10. Will any underground workings or aquifers be encountered? (X) Yes () No
Describe Abandoned underground workings
Is there an active discharge of water from abandoned deep mines on or
crossing the land affected? () Yes (X) No If yes, describe
the quality of water being discharged. _____

11. Describe specifically a detailed procedure for: See Attachment A
- The mining sequence
 - The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
 - The procedure for site preparation including removing trees and brush.
 - The method for removing and stockpiling topsoil or disturbed materials.
 - The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic materials.
 - A procedure for final stabilization of disturbed materials.

GRADING AND REGRADING

Specifically describe: See Attachment B

- Typical cross-section of regrading. See Attachment C
- The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
- What type of soil treatment will be utilized.
- The method of drainage control for the final regraded area.
- Maximum grading slope.

TESTING

1. Describe method for testing stability of reclamation fill material.

Observation of existing waste rock dumps

Describe method for the testing of soil that is intended to support vegetation

Soil analysis and revegetation study plots

2. Describe any soil treatment employed as an aid to revegetation none
planned at this time; soil amendments and surface manipulation proven
by revegetation studies, may be used.
3. Describe surface preparation of areas intended to support vegetation:

Round off outside edges of waste rock dump, reduce slope of dump

faces, regrade drainage contours, and scarify compacted surfaces.

REVEGETATION

1. Revegetation to be completed by:

☒ Operator
☐ Soil Conservation District
☐ Private Contractor
☐ Other (specify) _____

☐ Hydroseeding
☐ Aerial Seeding
☐ Conventional or Rangeland Dr
☐ Broadcast and Drag
☒ Other Broadcast and drag
covered

2. Will Mulch be used? () Yes (X) No

Type: _____ Rate/Acre _____ lbs.

3. Revegetation Plan and Schedule -

Species	Rate/ Acre	Planting Location	Facing N-S-E-W	Season to be replanted
Intermediate Wheatgrass	4 #/ac	All Sites	North	Preferably Fall
Crested Wheatgrass	4 "	" "	"	"
Fourwing Saltbrush	1 "	" "	"	"
Yellow Sweet Clover	1 "	" "	"	"
Russian Wildrye	3 "	" "	"	"
Indian Ricegrass	1 "	" "	"	"

4. Will affected area be subject to livestock or wildlife grazing?

(X) Yes () No Will vegetation protection be needed? No, grazing
pressure does not warrant protection.

5. Will irrigation be used: () Yes (X) No Type _____

6. Describe maintenance procedures for revegetation if needed, until surety release is granted.

Monitoring and reseeding if necessary

STATE OF

Utah

COUNTY OF

Grand

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depose and attest that all of the representations contained in the foregoing
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Signed:

Thomas L. Wilson

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Notary Public:

Sharon K. Hawkins
Moab, UtahMy Commission Expires: 10-30-80

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YES _____ (Initial)

NO _____ (Initial)

Sections desired to be maintained as confidential information -

_____	_____	_____
_____	_____	_____
_____	_____	_____

ATTACHMENT A

MINING

Uranium ore in the Saltwash sandstone member of the Morrison formation will be mined in a safe, orderly, and minerlike fashion using a modified room and pillar method. Proposed mining activity will originate at the two abandoned portals and existing underground workings of the Windfall Mine. Renovation of the existing portals, drilling ventilation holes, development of the waste rock stockpile, and improvement of access roads will be the major surface disturbances.

Waste rock generated by the proposed mining operation will be stockpiled on the designated area north of the existing mining site. The waste rock material has not been classified as to acid or alkali producing, but will be contained from blocking the ephemeral drainage through the site. The waste rock has a pH of 3.2 to 8.4 and is nutrient deficient.

Since the site has been previously disturbed, topsoil and vegetation has not been salvaged for revegetation purposes. There are no natural water bodies in the immediate area.

The existing road to the mine will be improved to facilitate access to the site. Ore produced by the mine would be transported down the access road and stockpiled on a temporary ore pad. This pad will consist of ore grade rock all of which will be removed.

ATTACHMENT B

RECLAMATION

Upon final abandonment of the mine, extraneous debris, scrap metal, discarded wood, and unusable buildings will be buried or removed from the location. The two mine portals and two proposed ventilation holes will be sealed to prevent unauthorized or accidental entry.

Outside edges of the waste rock dump will be rounded off to reduce the slope of the outside face. Drainage contours will be regarded on disturbed surfaces and all compacted surfaces will be scarified. With no topsoil available for reseedling, the specified seed mixture will be broadcast directly onto the waste rock and drag covered. All ore on the 0.3 acre ore pad will be removed, the area scarified, and seeded. The access road will be left open to provide access for the pipeline right-of-way in the area.

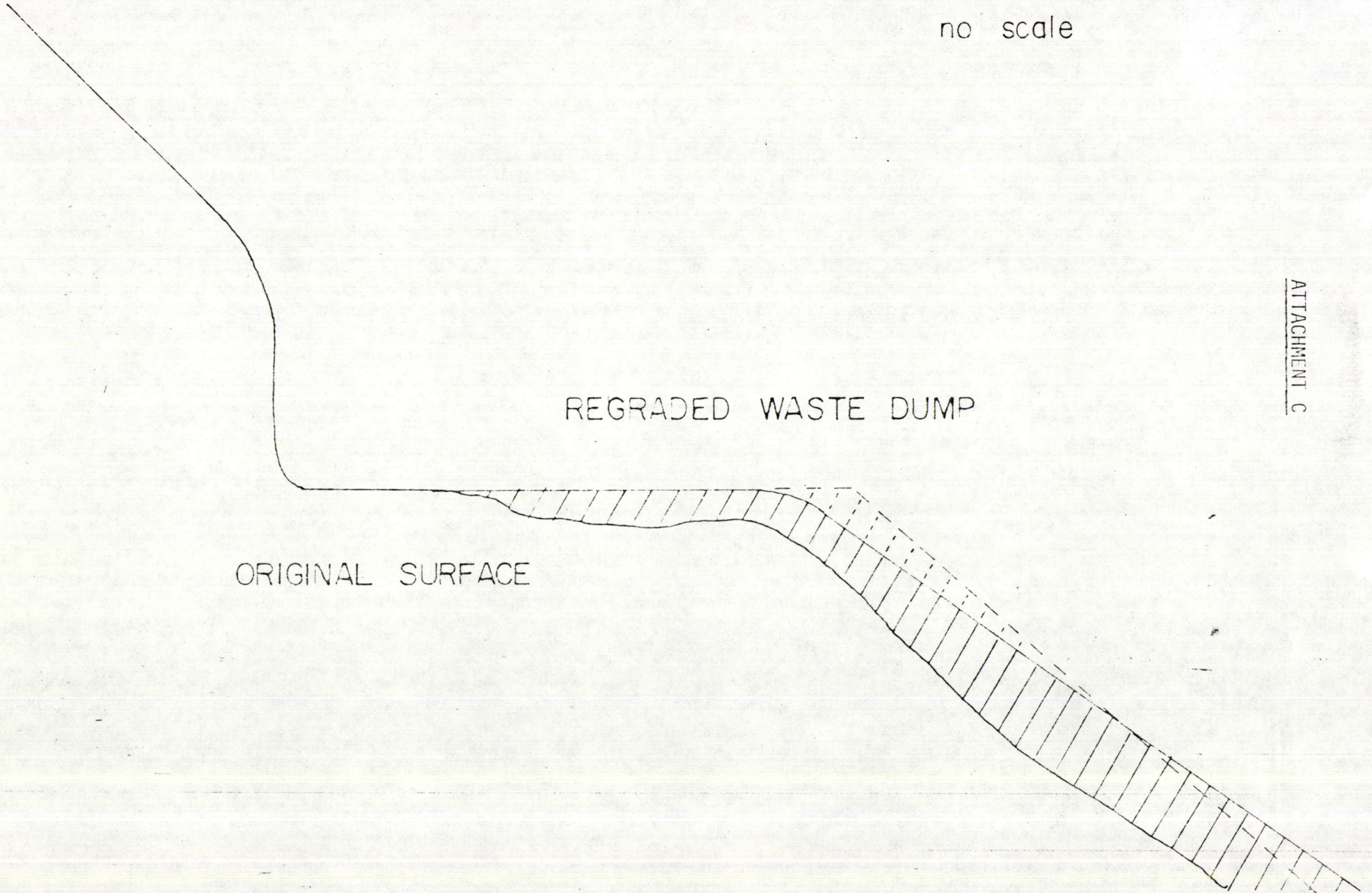
At this time, there are no plans for special seed bed preparation; however, soil amendments and surface manipulation will be used if they prove effective in revegetation test plots.

TYPICAL
CROSS SECTION OF
REGRADED AREA
no scale

ATTACHMENT C

REGRADED WASTE DUMP

ORIGINAL SURFACE



DIVISION OF OIL, GAS, AND MINING
BOND ESTIMATE

OPERATOR: ATLAS MINERALS, DIVISION OF ATLAS CORPORATION
MINE NAME: Windfall Mine -- ~~PRO~~ ^{ACT} 037/010
LOCATION: Section's 22 & 27, Township 31 South, Range 24 East
COUNTY: San Juan County, Utah
DATE: February 23, 1977

	Operation	Amount	Rate	Cost
A.	CLEAN-UP			
	1. Removal of structures & equipment.	20 man hrs	\$ 8./hr	\$ 160.
	2. Removal of trash & debris.	5 load hrs	25./hr	125.
	3. Leveling of ancillary facilities pads and access roads.	10 trk hrs	15./hr	150.
B.	REGRADING & RECONTOURING			
	1. Earthwork including haulage and grading of spoils, waste and overburden.	8 hours Bulldozer	50./hr	400.
	2. Recontouring of highwalls and excavations.	- -	- -	-
	3. Spreading of soil or surficial materials.	- -	- -	-
C.	STABILIZATION			
	1. Soil preparation, scarification, fertilization, etc. }	3 acres	100./ac	300.
	2. Seeding or planting.			
	3. Construction of terraces, water-bars, etc.	1 hour Bulldozer	50./ac	50.
D.	LABOR			
	1. Supervision.	10 hours	10./hr	100.
	2. Labor exclusive of bulldozer time.	- -	- -	-
E.	SAFETY			
	1. Erection of fences, portal coverings, etc.	2 portals	300./ea	600.
	2. Removal or neutralization of explosive or hazardous materials.	- -	- -	-
F.	MONITORING			
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.	- -	- -	-
G.	OTHER			\$ 1,855.
	1. Inflation	9 years	@ 5%	1,038
				SUBTOTAL

\$ 2,923.

TOTAL